

**IN THE ABSTRACT:**

The Abstract as amended below with a replacement Abstract shows added text with underlining and deleted text with ~~strike through~~.

Please DELETE the Abstract in its entirety and substitute the attached new Abstract.

An ~~object of the invention is to provide an~~ optical dispersion monitoring apparatus and an optical dispersion monitoring method, are capable of monitoring dispersion accurately with a simple construction, ~~and to~~ in an optical transmission system using the same. To this end, the optical dispersion monitoring apparatus includes ~~comprises~~ a light receiving section converting an input optical signal into an electrical signal, a signal transition position detecting section detecting the voltage level of a waveform of the output signal from the light receiving section, at a crossing point of a rising edge and a falling edge, and a cumulative dispersion information extracting section comparing the voltage level at the crossing point with a reference signal to extract cumulative dispersion information.